

Claims

[c1] What is claimed is:

1. A back light module for use in a dual-sided display having two parallel liquid crystal display (LCD) panels, the back light module comprising:
a plurality of external electrode fluorescent lamps (EEFLs) positioned between the two LCD display panels, each external electrode fluorescent lamp comprising a first electrode and a second electrode, the first electrodes being electrically connected in parallel, and the second electrodes being electrically connected in parallel.

[c2] 2. The back light module of claim 1, wherein the first electrodes and the second electrodes are electrically connected to an inverter that supplies an AC voltage.

[c3] 3. The back light module of claim 2, wherein the inverter drives the external electrode fluorescent lamps in a floating manner.

[c4] 4. The back light module of claim 1, wherein the first electrodes and the second electrodes are respectively connected to a metal electrode.

- [c5] 5. The back light module of claim 4, wherein the metal electrode is a conducting wire.
- [c6] 6. The back light module of claim 1, further comprising two diffusion plates respectively positioned between the two LCD display panels and the external electrode fluorescent lamps.
- [c7] 7. The back light module of claim 1, further comprising a diffusion plate positioned between one of the LCD display panels and the external electrode fluorescent lamps.
- [c8] 8. The back light module of claim 7, further comprising a frame wherein the diffusion plate and the flat fluorescent lamp are fixed to the frame.
- [c9] 9. A back light module for use in a dual face display having two parallel LCD display panels, the back light module comprising:
a flat fluorescent lamp positioned between the two LCD display panels, the flat fluorescent lamp being a double-faced light source.
- [c10] 10. The back light module of claim 9, wherein the flat fluorescent lamp comprises a first electrode and a second electrode electrically connected to an inverter.
- [c11] 11. The back light module of claim 9, further comprising

two diffusion plates respectively positioned between the two LCD display panels and the flat fluorescent lamp.

[c12] 12. The back light module of claim 9, further comprising a diffusion plate positioned between one of the LCD display panels and the flat fluorescent lamp.

[c13] 13. The back light module of claim 12, further comprising a frame wherein the diffusion plate and the flat fluorescent lamp are fixed to the frame.

[c14] 14. A back light module for use in a dual face display having two parallel LCD display panels, the back light module comprising:
a means for illuminating; and
a diffusion plate positioned between the means for illuminating and one of the LCD display panels.

[c15] 15. The back light module of claim 14, wherein the means for illuminating comprises a plurality of external electrode fluorescent lamps (EEFLs), each external electrode fluorescent lamp comprising a first electrode and a second electrode, the first electrodes being electrically connected in parallel, and the second electrodes being electrically connected in parallel.

[c16] 16. The back light module of claim 15, wherein the first electrodes and the second electrodes are electrically

connected to an inverter that supplies an AC voltage to the external electrode fluorescent lamps.

[c17] 17. The back light module of claim 16, wherein the inverter drives the external electrode fluorescent lamps in a floating manner.

[c18] 18. The back light module of claim 15, wherein the first electrodes and the second electrodes are respectively connected to a metal electrode.

[c19] 19. The back light module of claim 18, wherein each metal electrode is a conducting wire.

[c20] 20. The back light module of claim 15, further comprising a frame wherein the diffusion plate and the flat fluorescent lamp are fixed to the frame.

[c21] 21. The back light module of claim 14, wherein the means for illuminating is a flat fluorescent lamp, and the flat fluorescent lamp is a double-faced light source.

[c22] 22. The back light module of claim 21, wherein the flat fluorescent lamp comprises a first electrode and a second electrode electrically connected to an inverter.

[c23] 23. The back light module of claim 21, further comprising a frame wherein the diffusion plate and the flat fluorescent lamp are fixed to the frame.

